

Amendment and Response

Applicant: Micheal Talley et al.

Serial No.: 10/718,179

Filed: November 20, 2003

Docket No.: 200309402-1

Title: A METHOD FOR EDITING A PRINTED PAGE

IN THE CLAIMS

Please cancel claims 5 and 20-22.

Please add claims 23-24.

Please amend claims 1-4, 6-16, and 19 as follows:

1. (Currently Amended) A method of editing a printed page, comprising:
automatically scanning~~feeding at the printed page, via into~~ a multifunction printer, the printed page, wherein the printed page includes ing text and at least one handwritten edit symbol;
electronically obtaining, via the multifunction printer, a first electronic printable page description file, which corresponds to at least the text on the printed page;~~and~~
electronically identifying from the scanned printed page, via the multifunction printer, at least one electronic edit symbol, which corresponds to the at least one handwritten edit symbol; and
electronically and automatically modifying, via the multifunction printer, the first electronic printable page description file using the~~with~~ at least one electronic edit instruction, ~~which corresponds to the at least one electronic edit symbol,~~ to create a second page description ~~electronic printable~~ file that includes the text modified according to the at least one handwritten edit symbol.
2. (Currently Amended) The method of claim 1 wherein ~~electrically~~electronically and automatically modifying the first ~~electronic printable~~page description file comprises:
using a computer in communication with, and cooperation with, the multifunction printer to electronically modify the first ~~electronic printable~~page description file.
3. (Currently Amended) The method of claim 2 and further comprising:
performing, via at least one of the multifunction printer and the computer, at least one of:
printing the second ~~electronic printable~~page description file to at least one of the multifunction printer and a second printer;

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_____ digitally sending the second ~~electronic-printable~~page description file to a recipient, storing the second ~~electronic-printable~~page description file in a memory; and

_____ sending the second ~~electronic-printable~~page description file to a memory location external of the computer and the multifunction printer.

4. (Currently Amended) The method of claim 2 wherein electronically obtaining the first ~~electronic-printable~~page description file comprises:

obtaining a digital image file of the printed page by scanning the printed page with a scanner of the multifunction printer and optically recognizing the digital image file, via at least one of the multifunction printer and the computer, for conversion to the first ~~electronic-printable~~page description file.

5. (Canceled)

6. (Currently Amended) The method of claim 2 wherein electronically obtaining the first ~~electronic-printable~~page description file comprises:

optically recognizing, via the multifunction printer, an electronic identifier of the printed page as an electronic memory pointer and, based on the electronic memory pointer, retrieving the first ~~electronic-printable~~page description file from at least one of a memory of the multifunction printer and of the computer, and a memory available at a uniform resource locator address.

7. (Currently Amended) The method of claim 1 wherein electronically obtaining the first ~~electronic-printable~~page description file comprises:

optically recognizing, via the multifunction printer, an electronic identifier of the printed page as a memory and retrieving the first ~~electronic-printable~~page description file from the memory of the electronic identifier.

8. (Currently Amended) The method of claim 2 wherein electronically identifying ~~obtaining~~ the at least one electronic edit symbol via the multifunction printer comprises:

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optically recognizing the handwritten edit symbol as the at least one electronic edit symbol from a first array of electronic edit symbols stored in a memory of the multifunction printer; and

wherein electronically and automatically modifying the first ~~electronic printable page description~~ file comprises:

retrieving the at least one electronic edit instruction from a second edit symbol array stored in the computer; and

applying, at the computer, the at least one electronic edit instruction to the first page description ~~electronic printable~~ file.

9. (Currently Amended) The method of claim 2 wherein electronically obtaining the first ~~electronic printable page description~~ file comprises:

wirelessly retrieving, via the multifunction printer, an electronic identifier as a memory pointer from the printed page and based on the memory pointer, electronically retrieving the first ~~electronic printable page description~~ file from at least one of a memory of the multifunction printer, a memory of the computer, and a memory available at a uniform resource locator address.

10. (Currently Amended) The method of claim 1 wherein electronically identifying ~~obtaining the~~ at least one electronic edit symbol via the multifunction printer comprises:

optically recognizing the at least one handwritten edit symbol as the at least one electronic edit symbol from an array of electronic edit symbols stored in a memory of the multifunction printer; and

wherein electronically and automatically modifying the first ~~electronic printable page description~~ file via the multifunction printer comprises:

retrieving the at least one electronic edit instruction from the edit symbol array and applying, at the multifunction printer, the at least one electronic edit instruction to the first ~~electronic printable page description~~ file.

11. (Currently Amended) A method of using a multifunction printer, independent of and separate from a computer, to automatically edit a printed document, the method comprising:

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scanning an entire printed document via the multifunction printer without regard to position information on the printed document, with the printed document including text and at least one handwritten edit;

electronically and automatically identifying, via the scanned printed document, the at least one handwritten edit on the printed document and determining at least one corresponding electronic edit instruction;

electronically obtaining a first electronic printable file corresponding to the printed document; and

electronically and automatically applying, to the first electronic printable file, the at least one-or-more electronic edit instructions corresponding to the at least one handwritten edit symbol to modify the text, without regard to position information on the printed document, to create a second electronic printable file including modified text ~~revised~~ electronic document.

12. (Currently Amended) The method of claim 11 comprising:

performing at least one of;

printing the ~~revised electronic document~~ second electronic printable file;

digitally sending the second electronic printable file ~~revised electronic document~~ to a recipient, storing the second electronic printable file ~~revised electronic document~~ in a memory of the multifunction printer; and

sending the second electronic printable file ~~revised electronic document~~ to a memory location external of the multifunction printer.

13. (Currently Amended) A multifunction printer comprising:

a memory;

a scanner configured for obtaining an electronic image file of at least one printed page that includes a text and at least one handwritten symbol and for storing the electronic image file in the memory;

an optical recognition function configured to perform an optical character recognition on the electronic image file to recognize the at least one handwritten edit symbol as at least

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~~one~~ an electronic edit symbol, and configured to obtain an first ~~electronic-printable page~~ description file corresponding to the text of the at least one printed page;

an edit manager stored in the memory and configured, in communication with the optical recognition function, to ~~apply~~automatically implement an electronic edit instruction corresponding to the at least one electronic edit symbol to the first ~~electronic-printable page~~ description file to create a second ~~electronic-printable page~~ description file that includes the text modified according to the at least one handwritten edit symbol, wherein the edit manager implements the electronic edit instruction at the multifunction printer independent of, and separate from, a computer.

14. (Currently Amended) The multifunction printer of claim 13 wherein the optical character recognition function is further configured to optically recognizing at least one of: the text of the at least one printed page from the electronic image file as the first ~~electronic printable page~~ description file; and

an electronic identifier of the at least one printed page from the electronic image file for use as a memory pointer that points to an external memory location and retrieving the first ~~page description~~electronic-printable-file from that external memory location; and

an electronic identifier of the at least one printed page from the electronic image file for use as a memory storage that stores the first ~~electronic-printable page~~ description file and retrieving the first ~~page description~~electronic-printable file from that memory storage.

15. (Currently Amended) The multifunction printer of claim 13 further comprising a user interface comprising:

an electronic mail function configured to permit specifying an electronic mail address to which the second ~~electronic-printable page~~ description file will be digitally sent by the multifunction printer;

a print function configured to permit specifying that the second ~~electronic printable page~~ description file be printed by the multifunction printer;

a save function configured to permit specifying that the second ~~electronic printable page~~ description file be saved in the memory of the multifunction printer; and

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a send function configured to permit sending the second ~~electronic printable page~~
description file in a memory location external of the multifunction printer.

16. (Currently Amended) The multifunction printer of claim 13 wherein the edit manager comprises:

an edit symbol array including:

a plurality of electronic edit symbols, including the at least one electronic edit symbol, with each electronic edit symbol uniquely corresponding to a handwritten edit symbol; and

a plurality of electronic edit instructions with each respective electronic edit symbol corresponding uniquely to one of the electronic edit instructions.

17. (Original) The multifunction printer of claim 16 wherein the edit manager comprises:
an edit rules library configured to support application of the electronic editing instructions of the edit symbol array and including at least one of a grammar function, a dictionary function, and a format function.

18. (Original) The multifunction printer of claim 13 wherein the optical character recognition function is stored in at least one of the memory of the multifunction printer, a controller of the multifunction printer, and an application specific integrated circuit.

19. (Currently Amended) The multifunction printer of claim 13 wherein the multifunction printer comprises a wireless transceiver configured for communication with a wireless transponder tag of the at least one printed page with the wireless transponder tag being configured as a memory pointer that identifies a memory location storing the first ~~electronic printable page~~
description file.

20-22. (Canceled)

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23. (New) The method of claim 1 wherein electronically and automatically modifying the first page description file comprises using the multifunction printer exclusively, independent of and separate from a computer, to electronically modify the first page description file.

24. (New) The method of claim 11 wherein the first electronic printable file comprises a first page description file and wherein the second electronic printable file comprises a second page description file.